

CONCEPTUAL PLAN DISCLAIMER

THIS GENERIC DETAIL DOES NOT ENCOMPASS THE SIZING, FIT, AND APPLICABILITY OF THE TRITON CHAMBER SYSTEM FOR THIS SPECIFIC PROJECT. IT IS THE ULTIMATE RESPONSIBILITY OF THE DESIGN ENGINEE

COMPLIANCE WITH ALL APPLICABLE LAWS AND REGUALTIONS. TRITON PRODUCTS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH TRITON'S MINIMUM REQUIREMENTS. TRITON STORMWATER

INITION'S MINIMUM REQUIREMENTS. TRITON STORMWATER SOLUTIONS DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS. THE DESIGN ENGINEER IS RESPONSIBLE FOR ALL DESIGN DECISIONS.





7600 EAST GRAND RIVER, STE.195 BRIGHTON, MI 48114 PHONE: (810) 222-7652 ● FAX: (810) 222-1769 WWW.TRITONSWS.COM

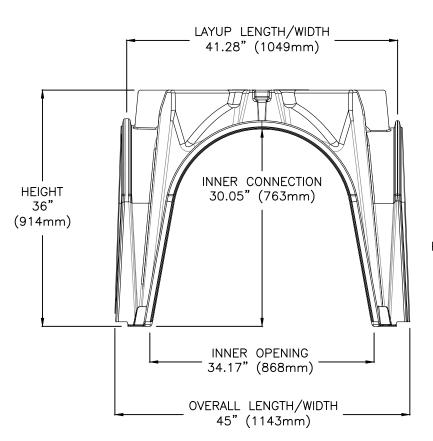
VAULT CROSS SECTION INFILTRATION

TRITON STANDARD DETAIL

REVISED:

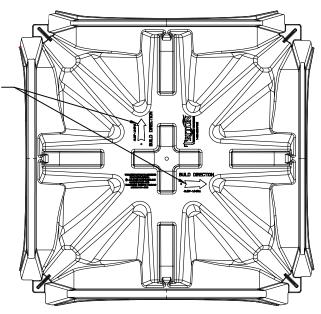
03-06-20 JWM

TRITON VAULT SPECS		
NOMINAL DIMENSIONS (LAYUP LENGTH X LAYUP WIDTH X HEIGHT)	41.28" X 41.28" X 36.00" (1049mm X 1049mm X 914mm)	
BARE CHAMBER STORAGE	28.79 CUBIC FEET (0.815 CUBIC METERS)	
VAULT WEIGHT	50 lbs (22.7 kg)	
MINIMUM INSTALLED STORAGE <u>WITHOUT</u> TRAY (6" BASE STONE, 6" TOP STONE)	36.21 CUBIC FEET (1.025 CUBIC METERS)	
MIN INSTALLED STORAGE <u>WITH</u> TRAY (6" BASE STONE)	43.78 CUBIC FEET (1.240 CUBIC METERS)	



VAULT END CAPS WILL SLIDE
UP INTO CONNECTING RIB

ENSURE BOTH BUILD DIRECTION ARROWS ARE GOING IN THE SAME DIRECTION AS PREVIOUS INSTALLED VAULTS TO ENSURE PROPER CONNECTION



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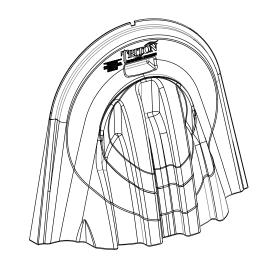


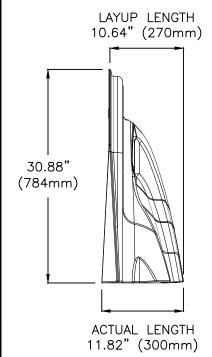
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VAULT STANDARD DETAIL

TRITON - STANDARD DETAILS

TRITON VAULT END CAP SPECS		
NOMINAL DIMENSIONS (LAYUP LENGTH X LAYUP WIDTH X HEIGHT)	10.64" X 35.24" X 30.88" (270mm X 895mm X 784mm)	
BARE END CAP STORAGE	2.16 CUBIC FEET (0.061 CUBIC METERS)	
END CAP WEIGHT	15 lbs (6.8 kg)	





25" (635mm) MAX
PIPE OUTSIDE
DIAMETER ALLOWED

OF ENI
OFFSET

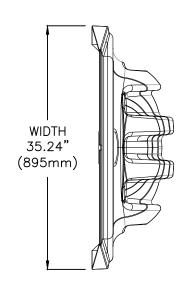
INLET PIPES MUST BE
INSTALLED ALONG CENTER
LINE OF END CAP.

CUT HOLES MUST PROVIDE MINIMUM 2.25" (58mm) OFFSET FROM TOP OF END CAP AND MIN 1" (25.4mm) OFFSET FROM BOTTOM OF END CAP

13.18" (335mm) HOLE CUTTING GUIDELINE. INVERT 10" (254mm) ABOVE CHAMBER BASE

15.88" (403mm) HOLE CUTTING GUIDELINE. INVERT 7.4" (188mm) ABOVE CHAMBER BASE

25" (635mm) HOLE CUTTING GUIDELINE. INVERT 3.5" (89mm) ABOVE CHAMBER BASE



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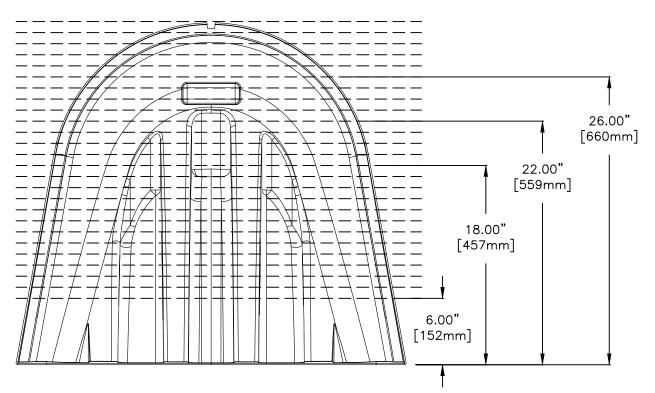
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VAULT END CAP STANDARD DETAIL

TRITON - STANDARD DETAILS

TREATMENT VOLUME CAN BE ADJUSTED BY INCREASING OR DECREASING THE BYPASS ELEVATION OF THE INNER MAIN HEADER ROW END CAP CUTS. IN ORDER TO MATCH ANY INCOMING FLOWRATE, MATCH THE TOTAL PIPE AREA OF INLET FLOW TO THE TOTAL FLOW AREA FROM THE TRITON MAIN HEADER ROW TO THE STORAGE ROWS.

EXAMPLE: A 24" PIPE HAS AN AREA OF 3.14 FT2. IF THE END CAPS ARE CUT AT 20" ABOVE THE END CAP BASE THE FLOW AREA PER CUT IS 1.354 FT2. 3.14 FT2 DIVIDED BY 1.354 FT2 EQUALS 2.3. SO 3 INNER MHR END CAPS MUST BE CUT IN ORDER TO ACCOMMODATE THAT FLOW.



Cut Height Above End Cap Base		Flow Area Per Cut	
in	mm	ft ²	m ²
6	152	4.161	0.387
7	178	3.943	0.367
8	203	3.728	0.347
9	229	3.517	0.327
10	254	3.307	0.308
11	279	3.101	0.289
12	305	2.897	0.270
13	330	2.695	0.251
14	356	2.496	0.232
15	381	2.299	0.214
16	406	2.105	0.196
17	432	1.913	0.178
18	457	1.724	0.161
19	483	1.537	0.143
20	508	1.354	0.126
21	533	1.174	0.109
22	559	0.998	0.093
23	584	0.829	0.078
24	610	0.668	0.063
25	635	0.516	0.048
26	660	0.375	0.035
27	686	0.248	0.024
28	711	0.139	0.013
29	737	0.052	0.005

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TRITON STORMWATER SOLUTIONS

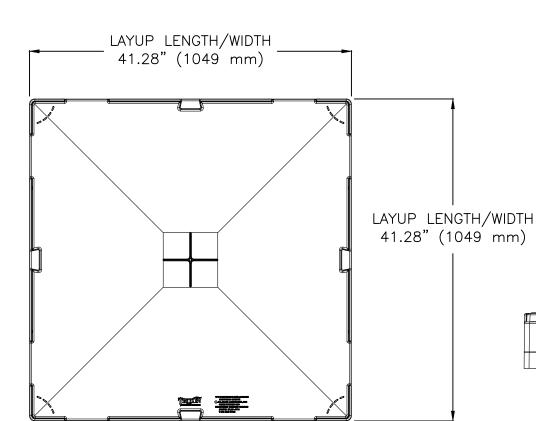


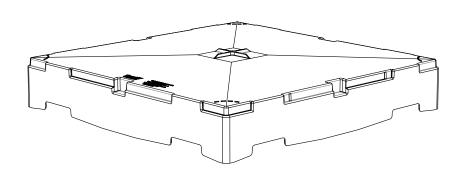
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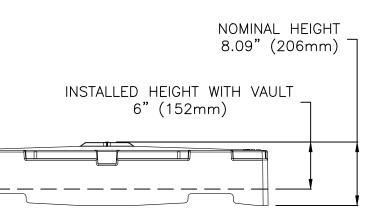
VAULT END CAP CUT AREA STANDARD DETAIL

TRITON - STANDARD DETAILS

TRITON VAULT TRAY SPECS			
NOMINAL DIMENSIONS (LAYUP LENGTH X LAYUP WIDTH X HEIGHT)	41.28" X 41.28" X 8.09" (1049mm X 1049mm X 206mm)		
INSTALLED DIMENSIONS (WITH TRITON VAULT) (LAYUP LENGTH X LAYUP WIDTH X HEIGHT)	41.28" X 41.28" X 6.00" (1049mm X 1049mm X 152mm)		
BARE TRAY STORAGE	5.92 CUBIC FEET (0.168 CUBIC METERS)		
TRAY WEIGHT	30 lbs (13.6 kg)		







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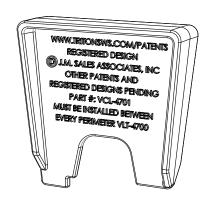
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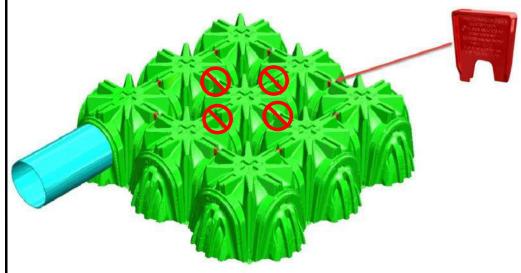
VAULT TRAY STANDARD DETAIL

TRITON - STANDARD DETAILS

TRITON VAULT CLOSE-OFF

CLOSE-OFF PARTS ARE ONLY REQUIRED BETWEEN ALL THE PERIMETER (OUTSIDE) VAULTS AS SHOWN BELOW. NO CLOSE-OFFS ARE REQUIRED BETWEEN VAULTS THAT ARE ON INSIDE OF THE SYSTEM.





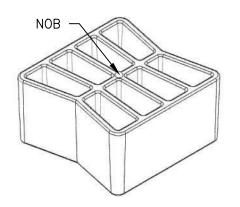
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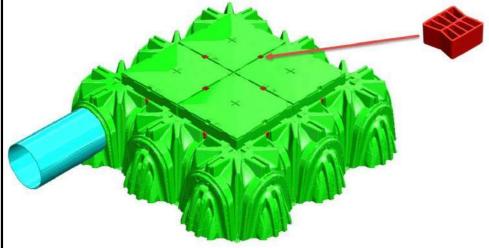


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TRITON VAULT LOCK

THE TRITON VAULT LOCKS WILL BE USED TO LOCK TOGETHER ALL TRAYS AS SHOWN IN THE IMAGE BELOW WITH THE ORIENTATION NOB FACING UPWARD





TRITON VAULT LOCK AND CLOSE-OFF DETAIL

TRITON - STANDARD DETAILS

REVISED:

12-05-18 JWM